

WHAT IS CLAIMED IS:

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- 1 1. A method for providing user location information for a personal information
2 management program, comprising:
3 providing a plurality of records for a user of a wireless device, wherein each user
4 record includes at least one position coordinate and an associated time indicating a location of
5 the wireless device at the time and the position coordinate;
6 providing records for transmitting devices, wherein each transmitting device record
7 includes at least one position coordinate and an associated location description providing
8 information on the position coordinate in the records; and
9 adding the location description from at least one of the transmitting device records to at
10 least one record associated with the user of the wireless device.
- 1 2. The method of claim 1, further comprising:
2 determining one transmitting device record including one position coordinate that is
3 within a proximity to one position coordinate in one user record, wherein the location
4 description from the determined transmitting device record is added to the user record having
5 the position coordinate within the proximity to the position coordinate of the determined
6 transmitting device record.
- 1 3. The method of claim 1, wherein the transmitting devices comprise wireless
2 devices associated with other users and fixed location transmitters associated with a location
3 providing information on a location.
- 1 4. The method of claim 1, wherein the user records further include a list identifying
2 one or more transmitting devices within a proximity to the wireless device of the user.
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7. The method of claim 4, further comprising:
receiving, with the user wireless device, wireless transmissions from proximate
transmitting devices, wherein each wireless transmission identifies one transmitting device; and
adding to the list each transmitting device identified in each wireless transmission.

1 9. The method of claim 1, further comprising:
2 searching a database of transmitting device records to determine one transmitting
3 device record including one position coordinate within a proximity to the position coordinate in
4 one user record, wherein the location description from the determined transmitting device
5 record is added to the user record having the position coordinate within the proximity to the
6 position coordinate of the determined transmitting device record.

$$\left\{ \begin{array}{l} \text{[100]} \\ \text{[100]} \\ \text{[100]} \end{array} \right\} = \left\{ \begin{array}{l} \text{[100]} \\ \text{[100]} \\ \text{[100]} \end{array} \right\} = \left\{ \begin{array}{l} \text{[100]} \\ \text{[100]} \\ \text{[100]} \end{array} \right\}$$

1 14. The system of claim 13, further comprising:
2 means for determining one transmitting device record including one position coordinate
3 that is within a proximity to one position coordinate in one user record, wherein the location
4 description from the determined transmitting device record is added to the user record having

1 20. The system of claim 19, wherein the transmitting devices identified in the list are
2 in the proximity of the position coordinate in the user record including the list.

1 21. The system of claim 13, further comprising:
2 means for searching a database of transmitting device records to determine one
3 transmitting device record including one position coordinate within a proximity to the position
4 coordinate in one user record, wherein the location description from the determined transmitting
5 device record is added to the user record having the position coordinate within the proximity to
6 the position coordinate of the determined transmitting device record.

1 22. The system of claim 13, further comprising means for providing a time in the
2 transmitting device records associated with the position coordinate indicating a time the
3 transmitting device was located at the position coordinate.

1 23. The system of claim 13, wherein at least one transmitting device record
2 indicates a location boundary defining multiple position coordinates, wherein the location
3 description in the transmitting device record provides information on the location boundary.

1 24. The system of claim 13, wherein the location description added from the
2 transmitting device record to the record associated with the user includes a multimedia file
3 providing information in a multimedia format on the location.

1 25. An article of manufacture comprising code for providing user location
2 information for a personal information management program by:
3 providing a plurality of records for a user of a wireless device, wherein each user
4 record includes at least one position coordinate and an associated time indicating a location of
5 the wireless device at the time and the position coordinate;

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1 28. The article of manufacture of claim 25, wherein the user records further include
2 a list identifying one or more transmitting devices within a proximity to the wireless device of the
3 user.

1 30. The article of manufacture of claim 29, further comprising:
2 determining one record for one of the transmitting devices identified in the list including
3 one position coordinate within a proximity to one position coordinate of one user record,

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$$\begin{array}{ccccccc} \left\{ \begin{matrix} \Gamma_{n+1}^{(1)} \\ \vdots \\ \Gamma_n^{(1)} \end{matrix} \right\} & \left\{ \begin{matrix} \Gamma_{n+1}^{(2)} \\ \vdots \\ \Gamma_n^{(2)} \end{matrix} \right\} & \left\{ \begin{matrix} \Gamma_{n+1}^{(3)} \\ \vdots \\ \Gamma_n^{(3)} \end{matrix} \right\} & \cdots & \left\{ \begin{matrix} \Gamma_{n+1}^{(m)} \\ \vdots \\ \Gamma_n^{(m)} \end{matrix} \right\} & \left\{ \begin{matrix} \Gamma_{n+1}^{(m+1)} \\ \vdots \\ \Gamma_n^{(m+1)} \end{matrix} \right\} & \left\{ \begin{matrix} \Gamma_{n+1}^{(m+2)} \\ \vdots \\ \Gamma_n^{(m+2)} \end{matrix} \right\} \\ \Gamma_{n+1}^{(1)} & \Gamma_n^{(1)} & \Gamma_{n+1}^{(2)} & \Gamma_n^{(2)} & \Gamma_{n+1}^{(3)} & \Gamma_n^{(3)} & \Gamma_{n+1}^{(m)} & \Gamma_n^{(m)} & \Gamma_{n+1}^{(m+1)} & \Gamma_n^{(m+1)} & \Gamma_{n+1}^{(m+2)} & \Gamma_n^{(m+2)} \end{array}$$
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$$\begin{array}{ccccccc} \left\{ \begin{matrix} [P_{11}] \\ [P_{12}] \\ [P_{13}] \end{matrix} \right\} & \left\{ \begin{matrix} [P_{21}] \\ [P_{22}] \\ [P_{23}] \end{matrix} \right\} & \left\{ \begin{matrix} [P_{31}] \\ [P_{32}] \\ [P_{33}] \end{matrix} \right\} & \left\{ \begin{matrix} [P_{41}] \\ [P_{42}] \\ [P_{43}] \end{matrix} \right\} & \left\{ \begin{matrix} [P_{51}] \\ [P_{52}] \\ [P_{53}] \end{matrix} \right\} & \left\{ \begin{matrix} [P_{61}] \\ [P_{62}] \\ [P_{63}] \end{matrix} \right\} & \left\{ \begin{matrix} [P_{71}] \\ [P_{72}] \\ [P_{73}] \end{matrix} \right\} \\ P_{11} & P_{12} & P_{13} & P_{14} & P_{15} & P_{16} & P_{17} \\ P_{21} & P_{22} & P_{23} & P_{24} & P_{25} & P_{26} & P_{27} \\ P_{31} & P_{32} & P_{33} & P_{34} & P_{35} & P_{36} & P_{37} \\ P_{41} & P_{42} & P_{43} & P_{44} & P_{45} & P_{46} & P_{47} \\ P_{51} & P_{52} & P_{53} & P_{54} & P_{55} & P_{56} & P_{57} \\ P_{61} & P_{62} & P_{63} & P_{64} & P_{65} & P_{66} & P_{67} \\ P_{71} & P_{72} & P_{73} & P_{74} & P_{75} & P_{76} & P_{77} \end{array}$$
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